



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

13 March 2003

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/03894

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01S 3/30

US CL : 372/3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 372/3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 5,323,404 A (GRUBB) 21 June 1994 (21.06.1994), column 6, line 51- column 7, line 30.	1-5, 21-29.
Y		6-20
Y	US 6,163,554 A (CHANG et al.) 19 December 2000 (19.12.2000), column 3, line 50- column 4, line 34.	1-29
A	US 6,163,396 A (WEBB) 19 December 2000 (19.12.2000), abstract.	1-29
Y,E	US 6,344,925 B1 (GRUBB et al.) 05 February 2002 (05.02.2002), column 6, line 13- column 8, line 33.	1-29

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"B" earlier application or parent published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

16 May 2002 (16.05.2002)

Date of mailing of the international search report

31 JUL 2002

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Paul Ip

Telephone No. 703-308-0956